

IN THE CLAIMS

Please amend the claims as follows.

1. (Currently Amended) A method of running an algorithm wherein the algorithm comprises a first function and a second function, the method comprising the ~~following~~ steps of:

~~a first step of~~ requesting an algorithm resource by the algorithm to provide a plurality of output quality levels,

~~a second step of~~ determining that the first function provides a first plurality of quality levels and the second function provides a second plurality of quality levels,

~~a third step of~~ allocating a budget to the algorithm to enable operating the algorithm at an output quality level, said output quality level being one of the plurality of output quality levels, and

~~a fourth step of~~ assigning a first quality level of the first plurality of quality levels to the first function and ~~[[of]]~~ assigning a second quality level of the second plurality of quality levels to the second function based on the output quality level.

2. (Currently Amended) [[A]] The method of running an algorithm according to claim 1, further comprising ~~a fifth step of~~ determining that the first function, while providing the first quality level, can be operated at a plurality of levels of complexity.

3. (Currently Amended) [[A]] The method of running an algorithm according to claim 1, further comprising the following steps:

~~a sixth step of~~ operating the algorithm at the output quality level.

~~a seventh step of~~ operating the first function at the first quality level while consuming a first amount of resources by the first function and operating the second function at the second quality level while consuming a second amount of resources by the second function.

4. (Currently Amended) [[A]] The method of running an algorithm according to claim 3, further comprising ~~an eighth step of~~ operating the first function at a least complex level of the plurality of levels of complexity.

5. (Currently Amended) [[A]] The method of running an algorithm according to claim 1, wherein the allocated budget is substantially equal to the requested algorithm resource.

6. (Currently Amended) [[A]] The method of running an algorithm according to claim 3, wherein the first amount of resources in addition to the second amount of resources is substantially equal to the allocated budget.

7. (Currently Amended) [[A]] The method of running an algorithm according to claim 1, further comprising ~~a ninth step of~~ determining a hardware platform operating said method to determine the algorithm resource and the plurality of output quality levels.

8. (Currently Amended) [[A]] The method of running an algorithm according to claim 1, further comprising ~~an tenth step of~~ determining a software platform operating said method to determine the algorithm resource and the plurality of output quality levels.

9. (Currently Amended) A system for running an algorithm wherein the algorithm comprises a first function and a second function, the system comprising:

function means (404, 406) conceived to contain the first function of the algorithm and [[a]] the second function of the algorithm; [[,]]

lookup means (402) conceived to contain a plurality of output quality levels that can be provided by the algorithm, a first plurality of quality level settings of the first function, and a second plurality of quality level settings of the second function; and

processing means for:

allocating a budget to the algorithm to enable operation of the algorithm at an output quality level, the output quality level being one of the plurality of output quality levels; and

assigning a first quality level of the first plurality of quality levels to the first function and assigning a second quality level of the second plurality of quality levels to the second function based on the output quality level.

10. (Currently Amended) [[A]] The system for running an algorithm according to claim 9, wherein at least one output quality level of said plurality of output quality levels can be provided by the algorithm for at least one first quality level setting of said first plurality of quality level settings and at least one second quality level setting of said second plurality of quality level settings.

11. (Currently Amended) [[A]] The system for running an algorithm according to claim 10, further comprising:

a complexity means ~~(418)~~ conceived to contain a plurality of levels of complexity of operation for said at least one first quality level setting.

12. (Currently Amended) [[A]] The system for running an algorithm according to claim 9, further comprising a hardware configuration means ~~(426)~~ conceived to contain a hardware platform configuration of the system to determine at least said plurality of output quality levels.

13. (Currently Amended) [[A]] The system for running a algorithm according to claim 9, further comprising a software configuration means ~~(428)~~ conceived to contain a software platform configuration of the system to determine at least said plurality of output quality levels.

14. (Original) A computer program product arranged to perform the method according to any of the claims 1 to 8.

15. (Currently Amended) A storage device (~~500~~) comprising a computer program product according to claim 14.

16. (Currently Amended) A television set (~~610~~) comprising a system according to any of the claims 9 to 13.

17. (Currently Amended) A set-top box (~~702~~) comprising a system according to any of the claims 9 to 13.

18. (New) A system for running an algorithm, comprising:
at least one memory capable of storing a first function of the algorithm, a second function of the algorithm, a plurality of output quality levels provided by the algorithm, a first plurality of quality level settings for the first function, and a second plurality of quality level settings for the second function; and

at least one processor capable of:
allocating a budget to the algorithm to enable operation of the algorithm at a selected output quality level, the selected output quality level comprising one of the plurality of output quality levels; and

assigning a first quality level of the first plurality of quality levels to the first function and assigning a second quality level of the second plurality of quality levels to the second function based on the selected output quality level.

19. (New) The system of Claim 18, wherein the at least one memory is further capable of storing a hardware configuration file containing a hardware platform configuration of the system, the plurality of output quality levels based at least partially on the hardware configuration file.

20. (New) The system of Claim 18, wherein the at least one memory is further capable of storing a software configuration file containing a software platform configuration of the system, the plurality of output quality levels based at least partially on the software configuration file.